rnternationalsearchreport

International application No PCT/JP2005/018396

CLASSIFICATION OF SUBJECT MATTER

C DOCUMENTS CONSIDERED TO BE RELEVANT

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IntCl HOLL 21/3205, HOLL 21/768, HOLL 21/822, HOLL 21/8234, HOLL 23/52, HOLL 23/522, HO1L 27/04, HO1L 27/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Published examined utility model applications of Japan 1972-1996
Published unexammed utility model applications of Japan 1971 2005
Registered utility model specifications of Japan 1996 2005
Published registered utility model applications of Japan 1994 2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication where appro	opriate, of the relevant passages	Relevant to claim No
Y	EP 1310998 A2 (Ricoh Company, [0036] -[0138] , Figs. 2-14 & JP 2003-152100 A , [0033] -	Ltd.) 2003.05.14,	1-12
Y	JP 9-17860 A (Sony Corporation [0002] -[0024] , Figs. 1-2 (Family: none)	.) 1997.01.17,	1-12
Y	[0014] -[0017] , Fig . 2	Ltd.) 2000 .12.08,	1-12
Y	(Family : none) J P 2004-146548 A (Ricoh Compa Claims 1, 5-6, [0020] - [0028 (Family : none)	ny, Ltd.) 2004 . 05 . 20,	8-10
Further documents are listed in the continuation of Box C * Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance 'E' earlier application or patent but published on or after the international filing date of understand the principle or theory underlying the invention "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means			
"P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search		"&" document member of the same patent family Date of mailing of the international search report	
	26.12.2005	17.01.	
Name and mailing address of the ISA/IP Japan Patent Office		Authorized officer TOMOKAZU HAYAKA	

TelephoneNo +81-3-3581-1 101 Ext. 3462

3-4-3, Kasumogaseki, Chiyoda-ku, Tokyo 100-8915, Japan